

(e) means for maintaining the bonding head in a stationary orientation above the workpiece such that the longitudinal axis of said transducer remains fixed along a line dividing said X and Y axes at all times during relative positioning of the workpiece and the transducer, for each wire bonding operation.

4. (Amended) Apparatus as claimed in claim 1, wherein said bonding head is fixed relative to said X and Y axes and wherein means are provided for moving said workpiece along said X and Y axes.

5. (Amended) Apparatus as claimed in claim 1, wherein said workpiece supporting means is fixed relative to said X and Y axes and wherein means are provided for moving said bonding head along said X and Y axes.

8. (Amended) Apparatus as claimed in claim 2, wherein said bonding head is fixed relative to said X and Y axes and wherein means are provided for moving said workpiece along said X and Y axes.

9. (Amended) Apparatus as claimed in claim 2 wherein said workpiece supporting means is fixed relative to said X and Y axes and wherein means are provided for moving said bonding head along said X and Y axes.

10. (Amended) Apparatus as claimed in claim 3, wherein said bonding head is fixed relative to said X and Y axes and wherein means are provided for moving said workpiece along said X and Y axes.

11. (Amended) Apparatus as claimed in claim 3 wherein said workpiece supporting means is fixed relative to said X and Y axes and wherein means are provided for moving said bonding head along said X and Y axes.

Add the following new claim:

12. An apparatus as claimed in claim 1, wherein said means for causing relative movement of the workpiece and the transducer cause movement to occur simultaneously along both the X and Y axes.